



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Appln No.: 09/993,531 ) **Confirmation No. 9261**  
)  
Filed: November 6, 2001 )  
)  
Applicant(s): Todd )  
)  
Title: TENSION-REDUCING RANDOM )  
SPROCKET )  
)  
Art Unit: 3682 )  
)  
Examiner: Timothy P. McAnulty )  
)  
Docket No.: DKT00151 )

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

This Information Disclosure Statement is being submitted in accordance with 37 C.F.R. § 1.97 - 1.98 in connection with the above-identified application. The following documents are listed on PTO/SB/08A which accompanies this Information Disclosure Statement.

**U.S. PATENTS**

<b><i>PATENT NO.</i></b>	<b><i>ISSUE DATE</i></b>	<b><i>INVENTOR(S)</i></b>
US-515,449	02/27/1894	Scovell
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US-4,913,684	04/03/1990	Mantovaara

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<b><i>Publication No.</i></b>	<b><i>Publication Date</i></b>	<b><i>w/ English Trans.</i></b>	<b><i>w/ English Abstract</i></b>	<b><i>Applicant(s)</i></b>
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DE20008042	09/21/2000		X	Schloßmacher et al.
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JP HEI1-95538	06/23/1989	X		Mitsubishi Motors Corp.
JP1288657	11/20/1989		X	Orion Mach Co. Ltd.
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JP3297792	10/30/1990		X	Hitachi Ltd. (JP)
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<b><i>Publication No.</i></b>	<b><i>Publication Date</i></b>	<b><i>w/ English Trans.</i></b>	<b><i>w/ English Abstract</i></b>	<b><i>Applicant(s)</i></b>
JP5086892	04/06/1993		X	Masaru Seki
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*A Study on Timing Belt Noise (How to Reduce Resonant Noise)* Conference Title: Proceedings of the 1989 International Power Transmission and Gearing Conference: New Technologies for Power Transmissions of the 90's; Chicago, Illinois, April 25, 1989

Analysis of Nonlinear Vibration of Timing Belt: (Under Meshing Impact and Varying Tension by Eccentric Pulley) Author: Shaochang Li; Hideyuki Otaki; Keiichi Watanuki; Conference Title: Proceedings of the 1995 Joint ASME/JSME Pressure Vessels and Piping Conference

Vibration and Control of Axially Moving Belt System. 1<sup>st</sup> Report, Experimental Analysis; Authors: Takano Koetsu ; Keiji Watanabe; Osami Matsushita; Masanori Kitano; Nippon Kikai Gakkai Ronbunshu. C ( *Transactions of the Japan Society of Mechanical Engineers. C* ), 1998, Vol. 64, No. 618, pp. 421-428, Fig. 20, Tbl. 6, Ref. 8 (w/ English translation)

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The above items are listed on Form PTO/SB/08A which accompanies this Information Disclosure Statement. A copy of each document listed under Foreign Patent Documents and Other Documents is enclosed herewith.

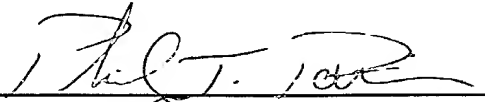
Pursuant to 37 CFR §1.97(h), the filing of this Information Disclosure Statement shall not be construed to be an admission that the information cited in the statement is, or is considered to be, material to patentability as defined in 37 CFR §1.56(b).

The Commissioner is hereby authorized to charge any additional fees which may be required in this application to Deposit Account No. 06-1135.

February 25, 2005

Date

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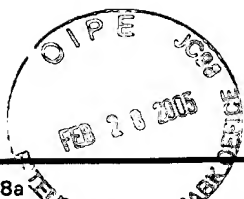


PTO/SB/089 Substitute for Form 1449A/PTO		Application Number		09/993,531	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Filing Date		November 6, 2001	
		First Named Inventor		Todd	
		Art Unit		3682	
		Examiner Name		Timothy P. McNulty	
Sheet	1	of	6	Attorney Docket	DKT00151

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup>			
		US-515,449	02/27/1894	Scovell	
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		US-4,913,684	04/03/1990	Mantovaara	
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		US-5,551,925	09/03/1996	Mott et al.	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08a  
Substitute for Form 1449A-PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet

2

of

6

Application Number 09/993,531

Filing Date November 6, 2001

First Named Inventor Todd

Art Unit 3682

Examiner Name Timothy P. McNulty

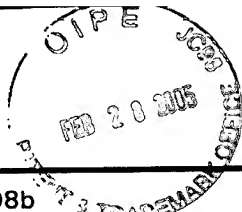
Attorney Docket DKT00151

## **FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup>				
		DE19520508	12/05/1996	Audi AG	(w/ English Trans.)	X
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		DE2338865	02/21/1974	Yamaha Hatsudoki K.K..	(w/ English	
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		GB 1 175 505	12/23/1969	Sempert Osterreichisch-		
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		JP63097830	04/28/1988	Mazda Motor Corp.	(w/ English	
		JP63145858	06/17/1988	Toshiba Corp.	(w/ English	
		JP HE11-95536	06/26/1989	Mitsubishi Motors Corp.	(w/ English Trans.)	X
		JP1288657	11/20/1989	Orion Mach Co. Ltd.	(w/English	
		JP1244116	04/10/1990	Man Nutzfahrzeuge GMBH	(w/English	
		JP3297792	10/30/1990	Hitachi Ltd. (JP)	(w/English	
		JP4039444	02/10/1992	Jiyapan Imeejingu	(w/English	
		JP HE14-165148	06/10/1992	Ricoh Co. Ltd.	(English Trans.)	X
		JP5086892	04/06/1993	Masaru Seki	(w/English	
		JP5164191	06/29/1993	Mitsubishi Heavy Ind. Ltd.	(w/English	
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		JP10274052	10/13/1998	Honda Motor Co. Ltd.	(w/English	
		JP2001304374	10/31/2001	Toyota Motor Corp.	(w/English	
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		JP2001349416	12/21/2001	Suzuki Motor Corp.	(w/English	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.





PTO/SB/08b Substitute for Form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	09/993,531		
		Filing Date	November 6, 2001		
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		Art Unit	3682		
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Sheet	3	of	5	Attorney Docket	DKT00151

NON PATENT LITERATURE DOCUMENTS			
Examine r Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		EPO Search Report from EP Patent Application No. 02257611, dated December 6, 2004.	
		<i>A Study on Timing Belt Noise (How to Reduce Resonant Noise)</i> Conference Title: Proceedings of the 1989 International Power Transmission and Gearing Conference: New Technologies for Power Transmissions of the 90's; Chicago, Illinois, April 25, 1989	
		Analysis of Nonlinear Vibration of Timing Belt: (Under Meshing Impact and Varying Tension by Eccentric Pulley) Author: Shaochang Li; Hideyuki Otaki; Keiichi Watanuki; Conference Title: Proceedings of the 1995 Joint ASME/JSME Pressure Vessels and Piping Conference	
		Vibration and Control of Axially Moving Belt System. 1 <sup>st</sup> Report, Experimental Analysis; Authors: Takano Koetsu ; Keiji Watanabe; Osami Matsushita; Masanori Kitano; Nippon Kikai Gakkai Ronbunshu. C ( <i>Transactions of the Japan Sociey of Mechanical Engineers. C</i> ), 1998, Vol. 64, No. 618, pp. 421-428, Fig. 20, Tbl. 6, Ref. 8 (w/ English translation)	
		Vibration and Control of Axially Moving Belt System, 3 <sup>rd</sup> Report, Analysis by Parametric Excitation; Authors: Hiroki Okubo; Kouetsu Takano; osami Matusushita; Keiji Watanabe; Yoshi Hirase Nippon Kikai Gakkai Ronbunshu. C ( <i>Transactions of the Japan Society of Mechanical Engineers. C</i> ), Vol. 65, No. 635, pp. 2706-2712 (w/ English translation)	
		<i>Life Analysis Of Water Pump Bearing For Cars Considering Shaft Rigidity</i> ; Koyo Eng J, 1989, No. 136, Page 51-63, Fig. 9, Tbl. 1, Ref. 5 (English abstract only)	
		Analysis of Nonlinear Oscillations of the Timing Belt (1 <sup>st</sup> Report, Regions of Resonance Of the Timing Belt); Author - Li, Shao-chang; Otaki, Hideyuki; Ishikawa, Yoshio; Watanuki, Keiichi; Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Parc C v 59 n 568 Dec. 1993. P. 3902-3906 (English abstract only)	
		Parametric Excitation of Timing Belt; Author: Osaki Eiki; Nippon Hakuyo Kiken Gakkaishi ( <i>Journal of the Marine Engineering Society in Japan</i> ); 1993, Vol 28, No. 5, pp. 320-325 (English abstract only)	
		Audible Noise Produced by the Sporadic Changes of Tensile Forces in a Belt Driven System; Author: C. Ozturk; ( <i>Journal of Low Frequency Noise &amp; Vibration</i> ); 1995, V14, N4, pp. 193-211 (English abstract only)	

Examiner Signature		Date Considered	
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<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/080 Substitute for Form 1449B/PTO		Application Number	09/993,531
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Filing Date	November 6, 2001
		First Named Inventor	Todd
		Art Unit	3682
		Examiner Name	Timothy P. McAnulty
Sheet	4 of 5	Attorney Docket	DKT00151
<b>NON PATENT LITERATURE DOCUMENTS</b>			
Examine r Initials*	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
		Vibration of Timing Belt Subjected to Fluctuations of Tension; Authors: Osaki Eiki, Miyoshi Yoshihiro; Koga Katsuyuki ( <i>Journal of National Fisheries University</i> ) 1996, Vol. 45, No. 2; Page 79-85 (English abstract only)	
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		Vibration and Control of Axially Moving Belt System (Effect of Inclined Angle by Theory and Experiment); Authors: Yoshi Hirase; Kouetsu Takano; Hiroki Okubo; Osami Matsushita; Keiji Watanabe. Nippon Kikai Gakkai Kikai Rikigaku, Keisoku Seigyo Koen Ronbunshu, 1999, Vol. 1999, No. A, pp. 443-446 (English abstract only)	
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